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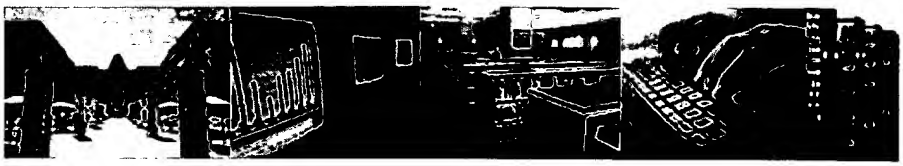

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AF

Your Name: TAMTHOM TRUONG

*Email Address: tamthom.ngo@uspto.gov
(e.g., Susan.Smith@uspto.gov)

*Employee No.: 74142

*Art Unit/Org.: 1624

*Office Location: REM -- 5B19

*Phone No.: x 20676

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***Case serial number:** 09/ 835,523

If not related to a patent application, please enter NA here.

Class / Subclass(es) 544/238 ; 548/356.1, 364.1, 364.7
514/252.01, 218
540/406, 553

Earliest Priority Filing Date: 11-12-99

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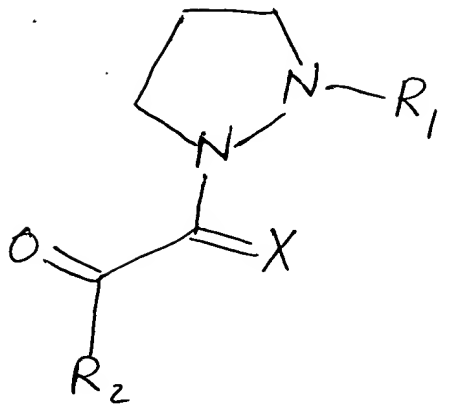


X = O, S

R_1 = -C-(any group); -O-(any group); -COOH; $-SO_3H$; -COO-(" "); -S-(" "); -CN; -CO-(" "); $-NHCO-$(" "); $-SO_2HN-$(" "); -N-(" "); $-PO_2-$(" "); -CON-(" "); $-PO_3-$(" "); -CONH(CO)-(" "); $-CONHNHSO_2-$(" ");

R_2 = H, Alk (sat'd + unsat'd), Rings (aromatic (+ non-aromatic). Including heterocycles

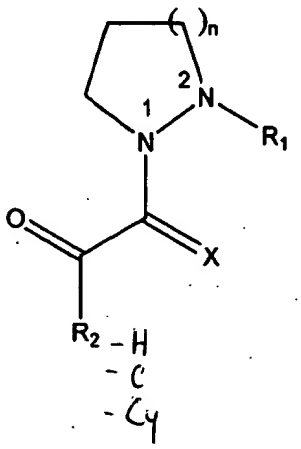
see also claims 1 & species in claim 3

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A compound of formula I



I

~~or a pharmaceutically acceptable salt, ester or solvate thereof, wherein:~~

or a pharmaceutically acceptable salt or ester thereof, wherein:

n = 1-3;

R_1 is selected from the group consisting of -CR_3, -$COOR_3$, -COR_3, -COOH, -SO_3H, -SO_2HNR_3, -$PO_2(R_3)_2$, -CN, -$PO_3(R_3)_2$, -OR_3, -SR_3, -$NHCOR_3$, -$N(R_3)_2$, -$CON(R_3)_2$, -$CONH(O)R_3$, -$CONHNHSO_2R_3$, -$COHNSO_2R_3$, and -$CONR_3CN$;

R_2 is selected from the group consisting of hydrogen, C_1-C_9 straight or branched chain alkyl, C_2-C_9 straight or branched chain alkenyl, C_2-C_9 straight or branched chain alkynyl, aryl, heteroaryl, carbocycle, and heterocycle, wherein said alkyl, alkenyl, alkynyl, aryl, heteroaryl, carbocycle, and heterocycle is unsubstituted or substituted with one or more substituents selected from R_3;

R_3 is selected from the group consisting of hydrogen, C_1-C_9 alkyl, C_2-C_9 straight or branched chain alkenyl, C_2-C_9 straight or branched chain alkynyl, C_1-C_9 alkoxy, C_2-C_9 alkenyloxy, aryloxy, phenoxy, benzyloxy, hydroxy, carboxy, C_1-C_9 thioalkyl, C_2-C_9 thioalkenyl,

C_1-C_9 alkylamino, C_2-C_9 alkenylamino, cyano, nitro, imino, sulfonyl, ~~thiocarbonyl,~~ sulfhydryl, halo, haloalkyl, trifluoromethyl, aryl, heteroaryl, carbocycle, and heterocycle,

wherein said alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, aryloxy, thioalkyl, thioalkenyl, alkylamino, alkenylamino, aryl, heteroaryl, carbocycle, or heterocycle group is optionally substituted with a hydroxy, carboxy, ~~carbonyl,~~ cyano, nitro, imino, sulfonyl, thiocarbonyl, sulfhydryl, halo, haloalkyl, trifluoromethyl, aryl, heteroaryl, carbocyle, or heterocycle group; and

X is O or S,

wherein the heteroaryl, carbocycle, and heterocycle are selected from cyclopentyl, cyclohexyl, cycloheptyl, phenyl, benzyl, naphthyl, indenyl, azulenyl, fluorenyl, anthracenyl, indolyl, isoindolyl, indolinyl, benzofuranyl, benzothiophenyl, indazolyl, benzimidazolyl, benzthiazolyl, tetrahydrofuranyl, tetrahydropyranyl, pyridyl, pyrrolyl, pyrrolidinyl, pyridinyl, pyrimidinyl, purinyl, quinolinyl, isoquinolinyl, tetrahydroquinolinyl, quinolizinyl, furyl, thiophenyl, imidazolyl, oxazolyl, benzoxazolyl, thiazolyl, isoxazolyl, isotriazolyl, oxadiazolyl, triazolyl, thiadiazolyl, pyridazinyl, pyrimidinyl, pyrazinyl, triazinyl, trithianyl, indolizinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, thienyl, tetrahydroisoquinolinyl, cinnolinyl, phthalazinyl, quinazolinyl, quinoxalinyl, naphthyridinyl, pteridinyl, carbazolyl, acridinyl, phenazinyl, phenothiazinyl, phenoxazinyl, adamantly, pyrrole groups, thiophene groups, pyridine groups, and isoxazole groups.

2. (Original) The compound of claim 1, wherein the compound is non-immunosuppressive.

3. (Currently Amended) The compound of claim 1, wherein said compound is selected from the group consisting of:

3, 3-dimethyl-N-[2-(5-phenylpentanoyl)-tetrahydro-1H-1-pyrazolyl]-1,2-pentanedione;

3, 3-dimethyl-N-[2-(3-phenylpropanoyl)-tetrahydro-1H-1-pyrazolyl]-1,2-pentanedione;

3, 3-dimethyl-1-[2-(5-(3-pyridyl) pent-4-ynoyl)-pyrazolidinyl]pentane-1, 2-dione;

3, 3-dimethyl-1-[2-(5-(cyano) pent-4-ynoyl)pyrazolidinyl]-pentane-1, 2-dione;

3, 3-dimethyl-1-[2-(4-phenylbutanoyl) pyrazolidinyl]-pentane-1, 2-dione;

3, 3-dimethyl-1-[2-(6-phenylhexanoyl)-pyrazolidinyl]-pentane-1, 2-dione;

3, 3-dimethyl-1-[2-(5-(3-pyridyl) pentanoyl)-pyrazolidinyl] pentane-1, 2-dione;

3-phenylpropyl 2-(3,3-dimethyl-2-oxopentanoyl)-pyrazolidinecarboxylate;

3-(3-pyridyl) propyl 2-(3, 3-dimethyl-2-oxopentanoyl)-pyrazolidinecarboxylate;

4-phenylbutyl 2-(3, 3-dimethyl-2-oxopentanoyl)-pyrazolidinecarboxylate;

2-phenylethyl 2-(3, 3-dimethyl-2-oxopentanoyl)-pyrazolidinecarboxylate;

3, 3-dimethyl-1-[2-(6-phenylhexanoyl) perhydro-pyridazinyl]pentane-1, 2-dione;

3, 3-dimethyl-1-[2-(6-(3-pyridyl) hexanoyl)-perhydropyridazinyl] pentane-1, 2-dione;

3-phenylpropyl 2-(3,3-dimethyl-2-oxopentanoyl)perhydropyridazinecarboxylate;

4-phenylbutyl 2-(3,3-dimethyl-2-oxopentanoyl)-perhydropyridazinecarboxylate;

5-phenylpentyl 2-(3,3-dimethyl-2-oxopentanoyl)-perhydropyridazinecarboxylate;

4-(3-pyridyl) butyl 2-(3,3-dimethyl-2-oxopentanoyl)-perhydropyridazinecarboxylate;

3, 3-dimethyl-1-[2-((5-phenyl) pentanoyl) perhydropyridazinyl] pentane-1, 2-dione; and

~~or a pharmaceutically acceptable salt, ester or solvate thereof, wherein:~~

or a pharmaceutically acceptable salt or ester thereof.